New *Series E* CyRAQ® Panel PC

NEMA 4X Sealed Stainless Steel Bezel Perfect for Factories

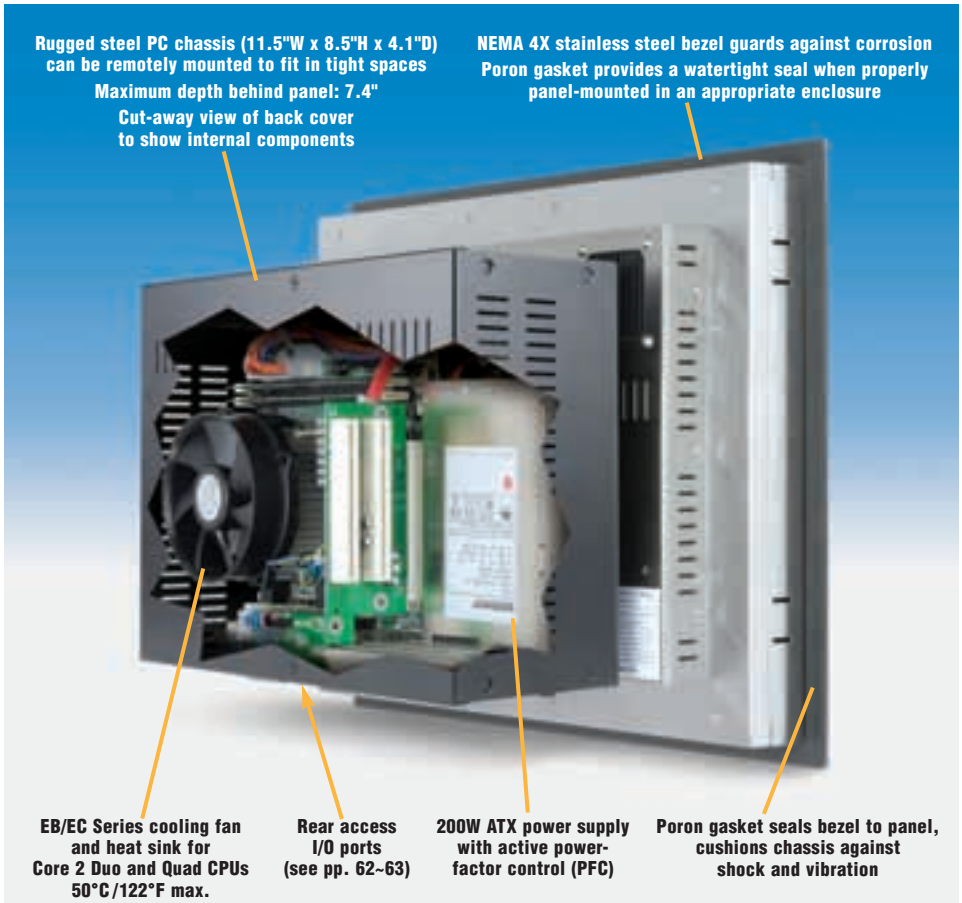
The powerful new *Series E CyRAQ* Panel PC is available with a broad choice of monitors and CPUs. Its rugged stainless steel front provides superior corrosion resistance and is sealed against dust, liquids, and contaminants. Forced-air cooling allows operation in industrial environments up to 122°F. Custom configurations are also available — please call for details.

For compute-intensive applications, we offer the latest Intel® Core™ 2 Quad processor — you get four 2.4 GHz CPUs that share the work! For mid-range jobs, there's the 2.1GHz Core™ 2 Duo CPU. For basic applications, we offer an embedded 1.6 GHz Intel Atom™ 330 model.

For the display on your *CyRAQ* panel PC, choose from 12 base models between 12" and 40" including several sunlight-readable LCDs. Options include touch-screens, antiglare *AR-Bonding*, choice of color, and front or rear OSD controls.

All units come with a processor, RAM, hard drive, & Windows operating system.

For the most complete and current details about our Series E PPCs, please visit cyberresearch.com/panelpc.


Rugged steel PC chassis (11.5"W x 8.5"H x 4.1"D) can be remotely mounted to fit in tight spaces
Maximum depth behind panel: 7.4"
Cut-away view of back cover to show internal components
NEMA 4X stainless steel bezel guards against corrosion
Poron gasket provides a watertight seal when properly panel-mounted in an appropriate enclosure
EB/EC Series cooling fan and heat sink for Core 2 Duo and Quad CPUs 50°C/122°F max.
Rear access I/O ports (see pp. 62~63)
200W ATX power supply with active power-factor control (PFC)
Poron gasket seals bezel to panel, cushions chassis against shock and vibration

15" **CPBR 15UC-EBQ24**
2.4GHz Panel PC with 15" Flush-Mount LCD

Available Now!

New *CyRAQ* Panel PCs with 19", 21", 24", or 40" Panel-Mount or Rack-Mount Monitors!

See the latest *Series E* PPCs at www.cyberresearch.com/panelpc

pg. 38

pp. 36~37

pp. 34~35

Choose 12", 15", or 17" *CyRAQ* panel-mount monitors (above) or choose 15" and 17" *CyRAQ* rack-mount monitors (as shown at left).

Optional *AR-Bonding*™ antiglare treatment is ideal for sunlit viewing (see pg. 24 for details).

www.cyberresearch.com
Visit our website for detailed product information!

Toll-Free Assistance: 1-800-341-2525 (USA) Tel: 203-643-5000 Fax: 203-643-5001
Applications Engineers: Monday – Friday, 9:00 AM – 5:00 PM, U.S. Eastern Time • **e-mail:** info@cyberresearch.com

The most powerful *CyRAQ*® Panel PC ever offers the latest Intel® Core™ 2 Duo or Core™ 2 Quad processors!

Series E CyRAQ Panel PCs

available with your choice of:

High-Performance CPU Models

Core 2 Duo 2.1 GHz w/ 1066 MHz FSB and 2 MB cache; 320 GB SATA HDD, 1GB RAM, 2 PCI slots (EB models)

OR

Core 2 Quad 2.4 GHz w/ 1066 MHz FSB and 8 MB cache; 320 GB SATA HDD, 1GB RAM, 2 PCI slots (EB models)

Features of powerful new EC series models:

- Quad Gigabit Ethernet LAN ports
- Dual DVI, VGA, and S-Video ports
- Four RS-232 ports • 7.1-channel audio

Economy Embedded CPU Models

Intel Atom 1.6 GHz w/ 533 MHz FSB and 512KB cache; 320 GB SATA HDD, 512 MB RAM, 1 PCI expansion slot

All models include:

- Slot-loading DVD burner
- 200W ATX power supply with PFC
- Windows® XP

plus...your choice of *CyRAQ* monitor

CyRAQ monitors are available with optional resistive touchscreen and AR-Bonding™

***CyRAQ* Panel PC shown here with 21" *CyRAQ* LCD; available with monitor sizes:**

40"
24"
21"
19"
17"
15"
12.1"

For details, see pp. 62-67

NEMA 4X stainless steel Panel PC system

Black or brushed stainless steel with front or rear-mounted monitor controls

Optional RKA 20160A dual-drive/ RAID system (see write-up below for details)

Slot-loading DVD burner supplied as standard

***Series E CyRAQ* Panel PC systems are available with a broad selection of monitors and CPUs (see ordering info on page 67)**

Custom configurations are also available — call for assistance

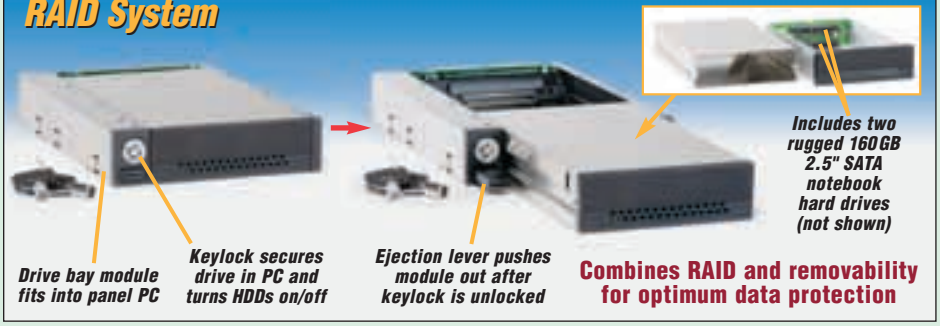
CPBF 21C-ECQ24

2.4 GHz Panel PC with 21" Flush-Mount LCD

Optional removable RAID system protects mission-critical data!

Modern hard drives are both fast and reliable, so many users find that regular backups are all the protection they need. However, if your *CyRAQ* PPC processes mission-critical data, you may need additional protection. That's why we offer the optional **RKA 20160A** RAID system, which includes an HDDM 2500 DataPak™ kit, two 160GB SATA drives, and associated RAID software.

RKA 20160A RAID System ***Features two 2.5" 160GB SATA drives in a pull-out module***


Drive bay module fits into panel PC
Keylock secures drive in PC and turns HDDs on/off
Ejection lever pushes module out after keylock is unlocked
Includes two rugged 160GB 2.5" SATA notebook hard drives (not shown)

Combines RAID and removability for optimum data protection

- **Removable Drives:** The HDDM 2500 lets you easily remove your drives, combining both security with ease of replacement in case one of the drives fails and needs to be replaced.
- **RAID Level 0 or 1:** With two drives in our **EBC21** & **EBQ24** PCs, you can protect your data with RAID Level 1, "mirroring" your data on both disks for 100% redundancy. Choosing RAID Level 0 "stripes" your data across both disks for improved drive I/O performance;

For more information about RAID, please see the Tech Note on page 99. For RKA systems with larger hard drives, see pg. 88.

CyRAQ® Panel PCs are available with a choice of 3 different motherboards

The powerful new *CyRAQ* Series E Panel PC is available with a broad choice of monitors and CPUs. Custom configurations are also available on a special order basis (call for details).

Far More Processing Power

Most industrial PC systems are rugged, but use older-generation or slower processors. At CyberResearch, we have chosen to build for highest processing power, even in our most affordable models.

For computer-intensive applications, we offer the Intel® Core™ 2 Quad processor, which uses four 2.4 GHz CPUs that share the work. For mid-range jobs, there's the 2.1GHz Core™ 2 Duo CPU. Both "Core™ 2"-family processors are also very energy-efficient, turning off sections of the CPU when they are not in use to reduce power consumption.

For basic applications, our EEA16 model is built around a new-generation 1.6 GHz Intel Atom CPU, offering a cost-effective solution with far more computing power than older CPUs.

Expansion Slots

Our **–EB** models include two PCI expansion slots that accommodate cards up to 7.2" long, while **–EE** models have one PCI slot. **–EC** models use their PCIe x16 slot for the included dual DVI video card.

Display Choices

All of our E-series panel PCs are available with monitor sizes from 12" to 24", in panel-mount or rack-mount versions. In fact, any of our monitors on pages 6 and 26 through 41 can be built as *CyRAQ* Series E Panel PCs – just ask! All *CyRAQ* LCDs have stainless steel front bezels, and can be ordered in black or brushed stainless-steel finish.

Need a touchscreen? No problem! Brightly lit location? We offer many sunlight-readable super-bright models, and an AR-bonding option for significant glare reduction. Have a special requirement? We can make it for you. Our engineering department handles unique customer system requirements on a regular basis. Using our modular design, even small quantities can be customized to match your application.

The Three Motherboards: A Summary

–EEA16:

- 1.6 GHz Atom Processor
- 1 PCI slot
- One Gigabit (10/100/1000) Ethernet LAN port
- One serial port
- VGA + S-Video out; 6-channel surround audio
- 512MB RAM (expandable to 1GB); 320 GB HDD

–EBQ24 / –EBC21:

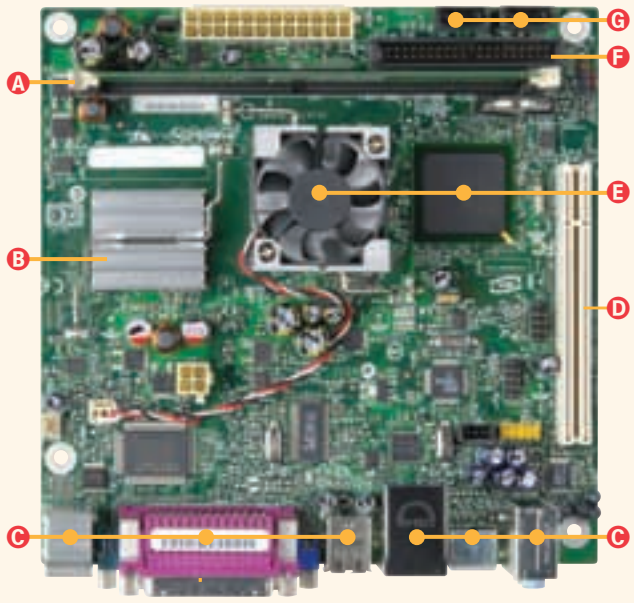
- 2.4 GHz Core 2 Quad or 2.1GHz Core 2 Duo Processor
- 2 PCI slots
- Two Gigabit (10/100/1000) Ethernet LAN ports
- Two serial ports (one selectable as RS-232/422/485)
- DVI + VGA out; 7.1 surround audio
- 1GB RAM (expandable to 3 GB); 320 GB HDD

–ECQ24 / –ECC21:

- 2.4 GHz Core 2 Quad or 2.1GHz Core 2 Duo Processor
- No expansion slots (has PCIe x16 slot used by DVI card)
- Four Gigabit (10/100/1000) Ethernet LAN ports
- Four serial ports
- Dual DVI + VGA + S-Video out; 7.1 surround audio
- 1GB RAM (expandable to 4 GB); 320 GB HDD

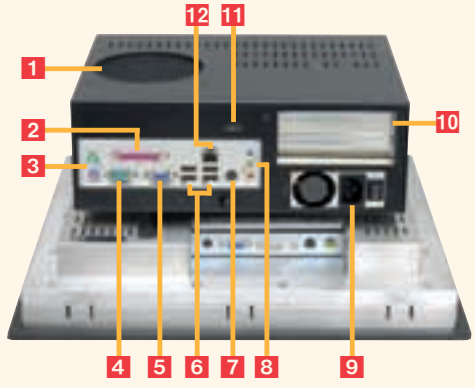
EEA16: Low Cost — High Power

Includes Intel® Atom™ 1.6 GHz CPU



Top View

Ⓐ One 240-pin DDR2 socket supports up to 1 GB of RAM (512 MB included)
Ⓑ Embedded 1.6 GHz Intel Atom CPU (below heat sync)
Ⓒ External I/O ports (see image below for details)
Ⓓ PCI bus connector for riser card that supports one optional PCI (5V) board (max. length: 7.2")
Ⓔ Intel 945GC chipset Ⓕ UltraATA/100 connector (used by included DVD burner)
Ⓖ 2 SATA 3.0Gb/s ports (one used by included 320 GB SATA hard drive; optional dual-drive upgrade available – see ordering information on pg. 67)



1 CPU fan inlet 2 Parallel port 3 PS/2 keyboard & mouse ports 4 Serial port (RS-232)
5 VGA port 6 4 USB 2.0 ports 7 S-Video port 8 Audio ports
9 AC input 10 1 PCI expansion slot 11 USB 2.0 port 12 Gigabit LAN port

Key Specifications (see web for full specifications) — EEA16

CPU Options: 1.6 GHz Intel Atom 330 processor with 533 MHz FSB and 512 KB cache. ***Chipset:*** Intel 945GC. ***Operating System:*** Windows® XP included. ***Memory:*** One 240-pin DDR2 socket supports up to 2 GB of RAM (512 MB included). ***Expansion Slots:*** 1 PCI (5V) slot; maximum card length: 7.2". ***Drives:*** Unit includes one 320 GB SATA hard drive and a slot-loading DVD burner. ***Parallel Port:*** 1 ECP/EPP/SPP port, DB-25F. ***COM Ports:*** 1 RS-232 serial port, DB-9M. ***USB 2.0 Ports:*** 5 Type A connectors. ***Ethernet:*** 10/100/1000Base-TX Ethernet LAN port, RJ-45. ***Video:*** 1 VGA port, HD-15; 1 S-Video port. ***Audio:*** Realtek ALC662 supports 6-ch. audio; line in, line out, and mic jacks. ***Power:*** Internal 200W ATX power supply with PFC, 90~264 VAC input, 50/60 Hz. ***PC Dimensions:*** 11.5"W x 8.5"H x 4.1"D (292 x 216 x 105 mm). ***Environmental:*** *Operating Temperature:* +32° to +122°F (0° to +50°C), *Humidity:* 10~95% noncondensing; *Shock:* 30g (1/2 sine for 11ms); *Vibration:* 15~57Hz: 0.006" p-p; 57~640 Hz: 10g p-p. ***Options:*** Dual SATA hard drives; see ordering info on page 67.

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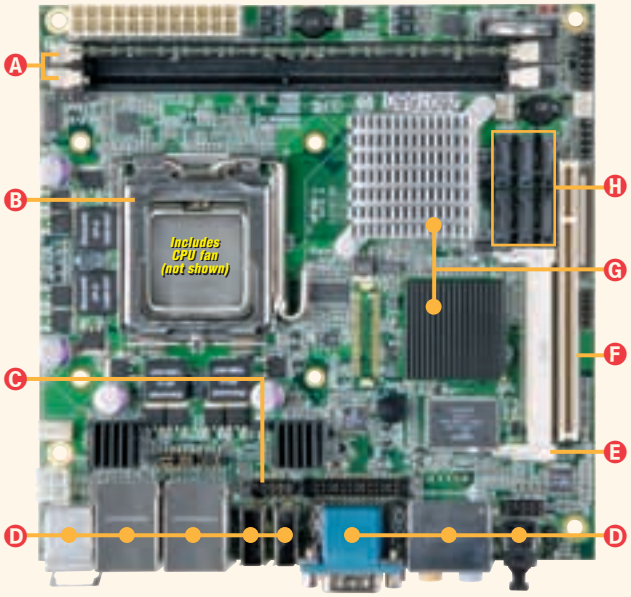
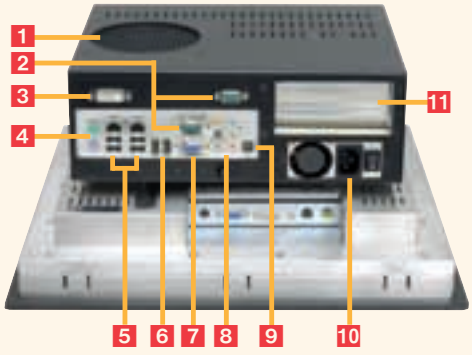
EBC21/EBQ24: 1066FSB & 2 PCI Slots

Available with Core™ 2 Duo and Quad CPUs



Top View

Ⓐ Two 240-pin DDR2 sockets support up to 3 GB of RAM (1 GB included) Ⓑ Processor socket (**–EBC21** includes 2.1GHz Core 2 Duo CPU; **–EBQ24** includes 2.4GHz Core 2 Quad CPU) Ⓒ COM 2: (RS-232/422/485; brought out to rear panel – see callout "2" below) Ⓓ External I/O ports (see image below for details) Ⓔ Mini PCI socket for optional wireless LAN card (see ordering info on pg. 67) Ⓕ PCI bus connector for riser card that supports two optional PCI (5V) boards (max. length: 7.2") Ⓖ Intel® Q965/ICH8DO chipset Ⓗ SATA 3.0Gb/s ports (one used by included 320GB SATA HDD; one used by included DVD burner; optional dual-drive RAID upgrade available – see ordering information on page 67)



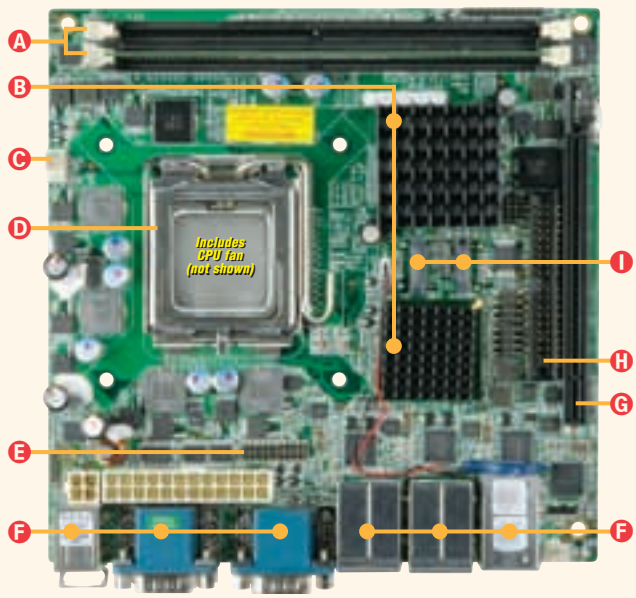
1 CPU fan inlet 2 2 serial ports (RS-232 & RS-232/422/485) 3 DVI port 4 PS/2 keyboard and mouse ports 5 Dual Gigabit LAN ports + 4 USB 2.0 ports 6 2 IEEE-1394 (FireWire) ports 7 VGA port 8 Audio ports 9 S/PDIF connector 10 AC input 11 2 PCI slots

Key Specifications (see web for full specifications) EBC/EBQ

CPU Options: 2.4 GHz Core™ 2 Quad w/1066 MHz FSB & 8 MB cache *or* 2.1 GHz Core™ 2 Duo with 1066 MHz FSB and 2 MB cache. ***Chipset:*** Intel® Q965/ICH8DO. ***Operating System:*** Windows® XP included. ***Memory:*** Two 240-pin DDR2 sockets support up to 3 GB of RAM (1 GB incl.). ***Expansion Slots:*** 2 PCI (5V) slots; max. card length: 7.2". ***Drives:*** Unit includes one 320GB SATA HDD and one slim slot-loading DVD burner. ***COM Ports:*** 1 RS-232 and 1 RS-232/422/485 port, DB-9M. ***USB 2.0 Ports:*** 4 Type A. ***FireWire:*** 2 IEEE-1394 ports, 6-pin. ***Ethernet:*** Dual 10/100/1000Base-T LAN, RJ-45. ***Video:*** DVI and VGA; supports dual display. ***Audio:*** Intel ICH8DP 7.1-channel audio, 6 audio jacks, plus optical S/PDIF. ***Power:*** Internal 200W ATX power supply with PFC, 90~264 VAC, 50/60 Hz. ***PC Dimensions:*** 11.5"W x 8.5"H x 4.1"D (292 x 216 x 105 mm). ***Environmental:*** *Operating Temp.:* +32° to +122°F (0° to +50°C); *Humidity:* 10~95%, noncondensing; *Shock:* 30g (1/2 sine, 11ms); *Vibration:* 15~57Hz: 0.006"p-p; 57~640Hz: 10g p-p. ***Options:*** Wireless LAN upgrade, dual-drive SATA/RAID upgrade; see pg. 67.

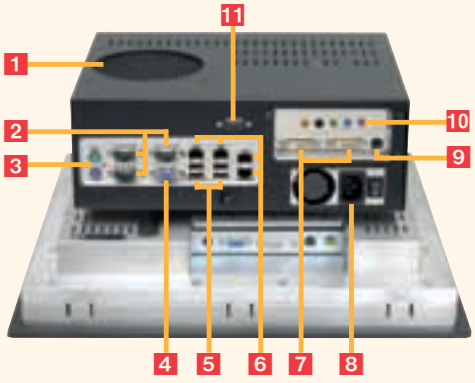
ECC21/ECQ24: Quad Gb LAN & Dual DVI

Available with Core™ 2 Duo and Quad CPUs



Top View

Ⓐ Two 240-pin DDR2 sockets support up to 4 GB of RAM (1 GB included) Ⓑ Intel® Q965/ICH8DO chipset Ⓒ CPU fan connector Ⓓ Processor socket (**–ECC21** includes 2.1GHz Core 2 Duo; **–ECQ24** includes 2.4GHz Core 2 Quad CPU) Ⓔ COM 4: (RS-232; brought out to rear panel – see callout "12" below) Ⓕ External I/O ports (see image below for details) Ⓖ PCI Express x16 slot for riser card that supports included video card Ⓗ UltraATA/100 connector (used by included DVD burner) Ⓘ 2 SATA 3.0Gb/s ports (one used by included 320GB SATA HDD; optional dual-drive upgrade available – see ordering info on page 67)



1 CPU fan inlet 2 3 serial ports (all RS-232) 3 PS/2 keyboard and mouse ports 4 VGA port 5 Four USB 2.0 ports 6 Four individual Gigabit LAN ports 7 Two DVI ports 8 AC input 9 S-Video port 10 Audio ports 11 Serial port

Key Specifications (see web for full specifications) ECC/ECQ

CPU Options: 2.4 GHz Core™ 2 Quad with 1066 MHz FSB and 8 MB cache, or 2.1 GHz Core™ 2 Duo with 1066 MHz FSB and 2 MB cache. ***Chipset:*** Intel Q965/ICH8DO. ***Operating System:*** Windows® XP included. ***Memory:*** Two 240-pin DDR2 sockets support up to 4 GB of RAM (1 GB included). ***Expansion Slots:*** No user slots available (1 PCIe x16 slot used for video card). ***Drives:*** Unit includes one 320GB SATA HDD and one slim slot-loading DVD burner. ***COM Ports:*** 4 RS-232 ports, DB-9M. ***USB 2.0 Ports:*** 4 Type A. ***Ethernet:*** Four 10/100/1000Base-T LAN ports, RJ-45. ***Video:*** 2 DVI ports, 1 VGA port, and 1 S-Video port; supports dual display. ***Audio:*** 7.1-channel surround Intel high definition audio, brought out on 5 audio jacks. ***Power:*** Internal 200W ATX power supply w/ PFC, 90~264 VAC, 50/60 Hz. ***PC Dimensions:*** 11.5"W x 8.5"H x 4.1"D (292 x 216 x 105 mm). ***Environmental:*** *Operating Temperature:* +32° to +122°F (0° to +50°C), *Humidity:* 10~95% noncond., *Shock:* 30g (1/2 sine, 11ms); *Vibration:* 15~57Hz: 0.006"p-p; 57~640Hz: 10g p-p. ***Options:*** Dual SATA hard drives; see pg. 67.

Universal-Mount Series E

CyRAQ® Panel PC

Front bezel is only 1.6" deep including mounting plate
Available in black (as shown below) or brushed stainless steel (as shown at right)
21"
15.7" (9U)
7.1" depth behind front panel
1 Landscape mount or...
15.7" (9U)
2 Portrait mount
19.2" (11U)

From Only $2695

As shown above, the front bezel of both the universal-mount *CyRAQ* 21 & 19 have been designed to facilitate easy rack mounting in either landscape or portrait orientation. Just use included software to rotate the on-screen image! Units can also be panel mounted using a supplied adapter plate.

Key PC Specifications (see pp. 60~63 & 66~67 for additional information; see our website for complete specifications)

CyRAQ Series "E" Panel PCs

ECC21/ECQ24 Models (rear panel shown on page 63)

CPU Options: 2.4 GHz Core™ 2 Quad with 1066 MHz FSB and 8 MB cache, or 2.1 GHz Core™ 2 Duo with 1066 MHz FSB and 2 MB cache. ***Chipset:*** Intel Q965 / ICH8DO. ***Operating System:*** Windows® XP included. ***Memory:*** Two 240-pin DDR2 sockets support up to 4 GB of RAM (1 GB included). ***Expansion Slots:*** No user slots available (1 PCIe x16 slot used for video card). ***Drives:*** Unit includes one 320GB SATA HDD and one slim slot-loading DVD burner. ***COM Ports:*** 4 RS-232 ports, DB-9M. ***USB 2.0 Ports:*** 4 Type A. ***Ethernet:*** 4 GigaBit LAN ports, RJ-45. ***Video:*** 2 DVI ports, 1 VGA port, & 1 S-Video port; supports dual display. ***Audio:*** 7.1-channel surround Intel high definition audio, brought out on 5 audio jacks. ***Power:*** Internal 200W ATX power supply with PFC, 90~264 VAC, 50/60 Hz. ***PC Dimensions:*** 11.5"W x 8.5"H x 4.1"D (292 x 216 x 105 mm). ***Environmental:*** *Operating Temperature:* +32° to +122°F (0° to +50°C), *Humidity:* 10~95% noncond., *Shock:* 30g (1/2 sine, 11ms); *Vibration:* 15~57Hz: 0.006"p-p; 57~640Hz: 10g p-p. ***Options:*** Dual SATA hard drives; see pg. 65.

EBC21/EBQ24 Models (rear panel shown on page 63)

CPU Options: 2.4 GHz Core™ 2 Quad w/1066 MHz FSB & 8 MB cache *or* 2.1 GHz Core™ 2 Duo with 1066 MHz FSB and 2 MB cache. ***Chipset:*** Intel® Q965/ICH8DO. ***Operating System:*** Windows® XP included. ***Memory:*** Two 240-pin DDR2 sockets support up to 3 GB of RAM (1 GB incl.). ***Expansion Slots:*** 2 PCI (5V) slots; max. card length: 7.2". ***Drives:*** Unit includes one 320GB SATA HDD and one slim slot-loading DVD burner. ***COM Ports:*** 1 RS-232 and 1 RS-232/422/485 port, DB-9M. ***USB 2.0 Ports:*** 4 Type A. ***FireWire:*** 2 IEEE-1394 ports, 6-pin. ***Ethernet:*** Dual Gigabit LAN, RJ-45. ***Video:*** DVI and VGA; supports dual display. ***Audio:*** Intel ICH8DP 7.1-channel audio, 6 audio jacks, plus optical S/PDIF. ***Power:*** Internal 200W ATX power supply with PFC, 90~264 VAC, 50/60 Hz. ***PC Dimensions:*** 11.5"W x 8.5"H x 4.1"D (292 x 216 x 105 mm). ***Environmental:*** *Operating Temp.:* +32° to +122°F (0° to +50°C); *Humidity:* 10~95%, noncondensing; *Shock:* 30g (1/2 sine, 11ms); *Vibration:* 15~57Hz: 0.006"p-p; 57~640Hz: 10g p-p. ***Options:*** Wireless LAN upgrade, dual-drive SATA / RAID upgrade; see pg. 65.

EEA16 Models (rear panel shown on page 62)

CPU Options: 1.6 GHz Intel Atom 330 processor with 533 MHz FSB and 512 KB cache. ***Chipset:*** Intel 945GC. ***Operating System:*** Windows® XP included. ***Memory:*** One 240-pin DDR2 socket supports up to 2 GB of RAM (512 MB included). ***Expansion Slots:*** 1 PCI (5V) slot; maximum card length: 7.2". ***Drives:*** Unit includes one 320 GB SATA hard drive and a slot-loading DVD burner. ***Parallel Port:*** 1 ECP/EPP/SPP port, DB-25F. ***COM Ports:*** 1 RS-232 serial port, DB-9M. ***USB 2.0 Ports:*** 5 Type A connectors. ***Ethernet:*** 1 Gigabit Ethernet LAN port, RJ-45. ***Video:*** 1 VGA port, HD-15; 1 S-Video port. ***Audio:*** Realtek ALC662 supports 6-channel audio; line in, line out, and mic jacks. ***Power:*** Internal 200W ATX power supply with PFC, 90~264 VAC input, 50/60 Hz. ***PC Dimensions:*** 11.5"W x 8.5"H x 4.1"D (292 x 216 x 105 mm). ***Environmental:*** *Operating Temperature:* +32° to +122°F (0° to +50°C), *Humidity:* 10~95% noncondensing; *Shock:* 30g (1/2 sine for 11ms); *Vibration:* 15~57Hz: 0.006" p-p; 57~640 Hz: 10g p-p. ***Options:*** Dual SATA hard drives; see ordering info on bottom of pg. 65.

Need ALL of the Details?

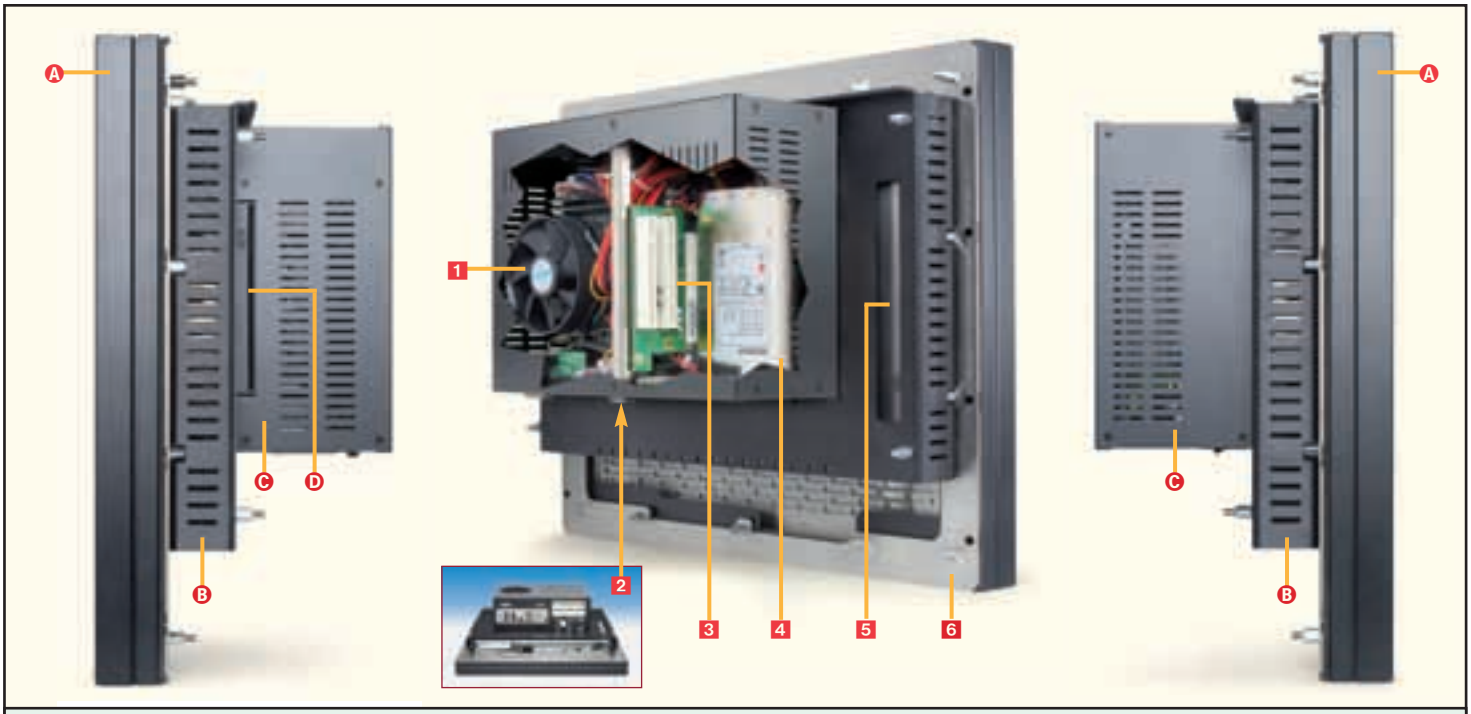
Visit www.cyberresearch.com!

Our website provides you with the most current information and complete specifications on all of our *CyRAQ* Panel PCs!

www.cyberresearch.com
Visit our website for detailed product information!
Toll-Free Assistance: 1-800-341-2525 (USA) Tel: 203-643-5000 Fax: 203-643-5001
Applications Engineers: Monday – Friday, 9:00 AM – 5:00 PM, U.S. Eastern Time • e-mail: info@cyberresearch.com

CyRAQ® 19 or 21 Monitor and Core 2 Duo 2.1 GHz CPU!

Compact Space-Saving NEMA 4X Stainless Steel Rack or Panel-Mounting PC System



Right Side View

Ⓐ Universal-mount *CyRAQ* 21 or 19 LCD monitor (for full monitor specifications, please see pages 28~31 or visit our website)
Ⓑ Panel PC mounting plate
Ⓒ *CyRAQ* Series E Panel PC (for full specifications, see pages 62~63 or visit our website)
Ⓓ Slot-loading DVD burner supplied as standard

Rear View

1 EB/EC series cooling fan and heat sink for Core 2 Duo and Quad CPUs (50°C/122°F max.) 2 Rear access ports on bottom of PPC (see pages 62~63 for model-specific port configurations) 3 2 PCI expansion slots 4 200W ATX power supply with active power-factor control (PFC) 5 PPC mounting plate hole allows access to models with rear-panel OSD controls 6 LCD mounting plate

Left Side View

Ⓐ Universal-mount *CyRAQ* 21 or 19 LCD monitor (for full monitor specifications, please see pages 28~31 or visit our website)
Ⓑ Panel PC mounting plate
Ⓒ *CyRAQ* Series E Panel PC (for full specifications, see pages 62~63 or visit our website)

Ordering Information:

Visit cyberresearch.com/panelpc for detailed information.

***CyRAQ* 19F Series E Panel PC:** 19" LCD Display, 1280 x 1024, 300 nits, Universal Panel or Rack Mounting			
CyRAQ 19F Specifications: (Call for sunlight-readable & flush panel-mt. models) *19.0"**W** x 15.7"**H** x 7.8"**D**, 7.5" Depth Behind Panel, Panel Cutout 17.4 x 14.0", 32.9 lb.*			
#**CRBF 19F-EBC21**	Front Controls, Black Bezel.....$**3295** **EBC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	#**CRBF 19F-EEA16**	Front Controls, Black Bezel.....$**2695** **EEA:** 1.6 GHz Atom 330 CPU, 512MB RAM, 320GB SATA HDD
#**CRBF 19F-ECC21**	Front Controls, Black Bezel.....$**3695** **ECC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	#**CRBF 19F-EBQ24**	Front Controls, Black Bezel.....$**3495** **EBQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
		#**CRBF 19F-ECQ24**	Front Controls, Black Bezel.....$**3895** **ECQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
***CyRAQ* 21C Series E Panel PC:** 21" LCD Display, 1600 x 1200, 300 nits, Universal Panel or Rack Mounting			
CyRAQ 21C Specifications: (Call or see website for flush panel-mount models) *19.0"**W** x 15.7"**H** x 7.8"**D**, 7.5" Depth Behind Panel, Panel Cutout 17.4 x 14.0", 36.2 lb.*			
#**CRBF 21C-EBC21**	Front Controls, Black Bezel.....$**3995** **EBC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	#**CRBF 21C-EEA16**	Front Controls, Black Bezel.....$**3395** **EEA:** 1.6 GHz Atom 330 CPU, 512MB RAM, 320GB SATA HDD
#**CRBF 21C-ECC21**	Front Controls, Black Bezel.....$**4395** **ECC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	#**CRBF 21C-EBQ24**	Front Controls, Black Bezel.....$**4195** **EBQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
		#**CRBF 21C-ECQ24**	Front Controls, Black Bezel.....$**4595** **ECQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD

NOTE: ***CyRAQ* Series E PPCs are also available with 12", 15", 17", 24" & 40" monitors and ultra-bright LCDs!** *See pages 66~67 for details.*

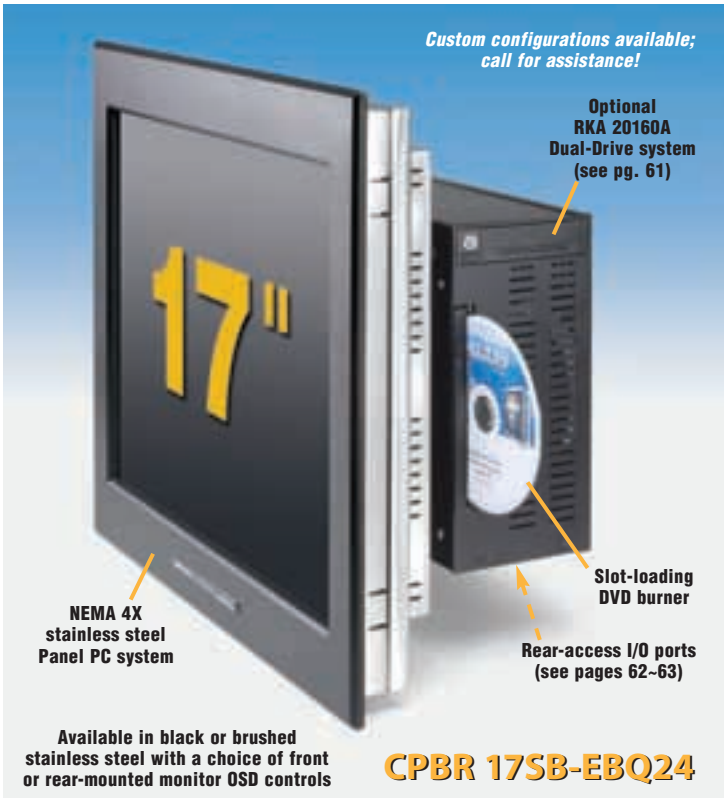
Insert **–TRU** in the part number between screen designator and CPU designator for optional USB-based **Analog Resistive Touchscreen**.....add $**500**
Insert **–U** in the part number between screen designator and CPU designator for optional *AR-Bonding* antireflective glass treatment *(original order only; see page 24)*.....add $**700**
As an example, the **CRBF 21C-EBC21** with both analog resistive touchscreen and *AR-Bonding* would be **CRBF 21C-TRU-U-EBC21** and priced at $5195 ($3995 + $1200).

NOTES: ***Colors:*** Part numbers shown above are for black bezel models; for a brushed stainless steel bezel change **CRBF/CRBR** to **CRSF/CRSR**. Custom colors available; please call for cost and delivery. ***Monitor control panel:*** Part numbers shown above represent monitors with OSD control buttons built into the *CyRAQ* display's front bezel; for **rear-access** controls, change **CRBF** to **CRBR**. All models are NEMA 4X when properly mounted in an appropriate enclosure.

Dual Drive/RAID upgrade: Upgrade to dual SATA drives in your Series E PPC! With this upgrade, our **EB** models support RAID 0 and 1 (**ECQ24**, **ECC21**, & **EEA16** models do not support RAID, but can have two hard drives using our RKA upgrades). **Original order only**; RKA option replaces the 3.5" SATA HDD. Order **RKA 20160A** upgrade (two 160GB drives) for an additional $**245**, **RKA 20320A** (two 320GB drives) for $**445**, or **RKA 20500A** (two 500GB drives) for $**545**. **Wireless LAN upgrade:** To add wireless networking to **EBQ24** & **EBC21** models, order the **MPCI WLANB** at $**100** (original order only). For custom mounting solutions, call our applications engineers.

QUANTITY DISCOUNTS: 1-4/LIST 5-9/5% 10-24/10% 25+/CALL **Quantities of a Single Item Per Shipment – Call for Details**

CyRAQ® Series E PPCs — Powerful All-in-One Computer Systems


Custom configurations available; call for assistance!
Optional RKA 20160A Dual-Drive system (see pg. 61)
17"
Slot-loading DVD burner
NEMA 4X stainless steel Panel PC system
Rear-access I/O ports (see pages 62~63)
Available in black or brushed stainless steel with a choice of front or rear-mounted monitor OSD controls
CPBR 17SB-EBQ24

Once you've chosen the PC "engine" for your E-series unit and selected the model of LCD that best suits your needs, there are some other build options that let you customize your *CyRAQ* Panel PC. You can choose whether you want to add a **touchscreen**, and if you want ***AR-Bonding***™ to reduce glare in bright environments. Finally, you can choose the **color** of your new panel PC's front bezel (black or brushed stainless steel).

Other options to consider:

Our 15" and 17" models can be ordered with a **rack-mount** front bezel that fits any standard 19" rack.

Our 19" to 24" models are available in a **flush panel-mount** front bezel similar to the bezels on our smaller models.

To remove access to the OSD display controls, all units can be built with **rear-access controls** on request.

Optional Wi-Fi Upgrade Eliminates LAN Cabling and Speeds Installation

Factory floors are seldom easy places to run LAN cables, so running the cables is often a costly and labor-intensive process. With our optional **MPCI WLANB**, you need no cables to connect your **EBC21** or **EBQ24** *CyRAQ* Series E panel PC to your existing local area network. This factory-installed upgrade puts a wireless LAN Mini PCI card into the panel PC and adds an antenna to the side of the PC's case.

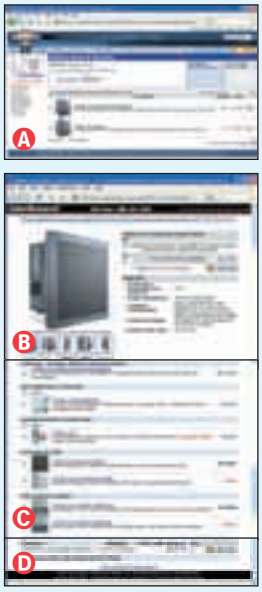
MPCI WLANB complies with both IEEE 802.11b & 802.11g, so it connects seamlessly with existing Wi-Fi systems that use Channel 11 on frequencies from 2.4 GHz~2.483 GHz. For security, you can use the built-in hardware-based encryption to protect your data with WPA2 Encryption (certified Wi-Fi protected access). If you prefer, you can also use built-in 64-bit / 128-bit WEP encryption.

See pages 88~89 or visit cyberresearch.com for details on stand-alone *CyRAQ Series E PCs*!

CyRAQ Panel PC Configurator at cyberresearch.com Automates Configuring Your PPC!

Series E Panel PCs are built from five separate motherboard/CPU combinations and 12 different CyRAQ monitor models. To keep the ordering information box on the facing page to a reasonable size, we only show our most popular LCDs. The full list organized by monitor models includes the following:

CyRAQ 40A PPC	40"	700 nits	(***NEW!*** *see pp. 6~7)*
CyRAQ 40SB PPC	40"	**1000 nits**	(***NEW!*** *see pp. 6~7)*
CyRAQ 24G PPC	24"	300 nits	*(see pp. 26~27)*
CyRAQ 21C PPC	21"	300 nits	*(see pp. 28~29)*
CyRAQ 19F PPC	19"	300 nits	*(see pp. 30~31)*
CyRAQ 19SC PPC	19"	**1540 nits**	*(see pp. 30~31)*
CyRAQ 17C PPC	17"	300 nits	*(see pp. 34~35)*
CyRAQ 17SB PPC	17"	**1000 nits**	*(see pp. 34~35)*
CyRAQ 15A PPC	15"	500 nits	*(see pp. 36~37)*
CyRAQ 15WB PPC	15"	**1000 nits**	*(see pp. 36~37)*
CyRAQ 15UC PPC	15"	**1850 nits**	*(see pp. 36~37)*
CyRAQ 12SB PPC	12"	**1650 nits**	*(see pg. 38)*

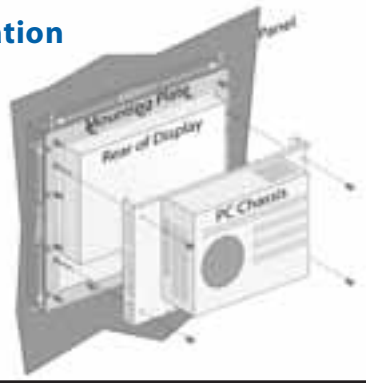


Our website features a Panel PC configurator that enables you to select the combination of features that your application requires.

To reach our configurator, go to *cyberresearch.com* and click on the white search box in the upper right-hand corner of the home page. Then type in your preferred monitor model designation, as shown in the yellow box directly above. As an example, type "cyraq 21c ppc." That will bring you to a screen much like **A** at left. Clicking on one of the PPCs shown brings you to a screen much like **B**. Scroll down to find such choices as AR-Bonding, touchscreen, RAID, and other options, as shown in section **C**. Click the ones you want and scroll down to the very bottom of the page for the price of the PPC you configured, as shown in section **D**.

Panel-Mount Installation

Simple yet rugged panel-mounting system for universal-mount Series E 19" and 21" models. Panel-mounting system for 24" models is similar. See website for mounting system for flush-mount 12", 15", and 17" models.



www.cyberresearch.com
Visit our website for detailed product information!
Toll-Free Assistance: 1-800-341-2525 (USA) Tel: 203-643-5000 Fax: 203-643-5001
Applications Engineers: Monday – Friday, 9:00 AM – 5:00 PM, U.S. Eastern Time • e-mail: info@cyberresearch.com

It's Easy to Configure a *CyRAQ*® Panel PC!

1 Choose an LCD and Motherboard Combo from the List Below 2 Choose Upgrade Options

CyRAQ 12SB Series E Panel PC: 12" LCD Display, 1024 x 768, 1650 nits, Flush Panel Mounting

CyRAQ 12SB Common Specifications:
*13.0"**W** x 10.5"**H** x 7.7"**D**, 7.4" Depth Behind Panel, Panel Cutout 12.3 x 9.6", 16.3 lb.*

#CPBF 12SB-EBC21	Front Controls, Black Bezel ..... **$3995** **EBC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CPBF 12SB-EEA16**	Front Controls, Black Bezel ..... $3395 **EEA:** 1.6 GHz Atom 330 CPU, 512MB RAM, 320GB SATA HDD
#CPBF 12SB-ECC21	Front Controls, Black Bezel ..... **$4395** **ECC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CPBF 12SB-EBQ24**	Front Controls, Black Bezel ..... $4195 **EBQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
		#CPBF 12SB-ECQ24	Front Controls, Black Bezel ..... **$4595** **ECQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD

CyRAQ 15A Series E Panel PC: 15" LCD Display, 1024 x 768, 500 nits, Flush Panel Mounting

CyRAQ 15A Specifications: (Call for sunlight-readable & rack-mount models)
*16.0"**W** x 12.7"**H** x 7.7"**D**, 7.4" Depth Behind Panel, Panel Cutout 15.2 x 11.9", 28.1 lb.*

#CPBF 15A-EBC21	Front Controls, Black Bezel ..... **$3395** **EBC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CPBF 15A-EEA16**	Front Controls, Black Bezel ..... $2795 **EEA:** 1.6 GHz Atom 330 CPU, 512MB RAM, 320GB SATA HDD
#CPBF 15A-ECC21	Front Controls, Black Bezel ..... **$3795** **ECC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CPBF 15A-EBQ24**	Front Controls, Black Bezel ..... $3595 **EBQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
		#CPBF 15A-ECQ24	Front Controls, Black Bezel ..... **$3995** **ECQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD

CyRAQ 17C Series E Panel PC: 17" LCD Display, 1280 x 1024, 300 nits, Flush Panel Mounting

CyRAQ 17C Specifications: (Call for sunlight-readable & rack-mount models)
*16.0"**W** x 14.5"**H** x 7.7"**D**, 7.4" Depth Behind Panel, Panel Cutout 15.2 x 13.7", 30.4 lb.*

#CPBF 17C-EBC21	Front Controls, Black Bezel ..... **$3295** **EBC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CPBF 17C-EEA16**	Front Controls, Black Bezel ..... $2695 **EEA:** 1.6 GHz Atom 330 CPU, 512MB RAM, 320GB SATA HDD
#CPBF 17C-ECC21	Front Controls, Black Bezel ..... **$3695** **ECC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CPBF 17C-EBQ24**	Front Controls, Black Bezel ..... $3495 **EBQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
		#CPBF 17C-ECQ24	Front Controls, Black Bezel ..... **$3895** **ECQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD

CyRAQ 19F Series E Panel PC: 19" LCD Display, 1280 x 1024, 300 nits, Universal Panel or Rack Mounting

CyRAQ 19F Specifications: (Call for sunlight-readable & flush panel-mt. models)
*19.0"**W** x 15.7"**H** x 7.8"**D**, 7.5" Depth Behind Panel, Panel Cutout 17.4 x 14.0", 32.9 lb.*

#CRBF 19F-EBC21	Front Controls, Black Bezel ..... **$3295** **EBC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CRBF 19F-EEA16**	Front Controls, Black Bezel ..... $2695 **EEA:** 1.6 GHz Atom 330 CPU, 512MB RAM, 320GB SATA HDD
#CRBF 19F-ECC21	Front Controls, Black Bezel ..... **$3695** **ECC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CRBF 19F-EBQ24**	Front Controls, Black Bezel ..... $3495 **EBQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
		#CRBF 19F-ECQ24	Front Controls, Black Bezel ..... **$3895** **ECQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD

CyRAQ 21C Series E Panel PC: 21" LCD Display, 1600 x 1200, 300 nits, Universal Panel or Rack Mounting

CyRAQ 21C Specifications: (Call or see website for flush panel-mount models)
*19.0"**W** x 15.7"**H** x 7.8"**D**, 7.5" Depth Behind Panel, Panel Cutout 17.4 x 14.0", 36.2 lb.*

#CRBF 21C-EBC21	Front Controls, Black Bezel ..... **$3995** **EBC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CRBF 21C-EEA16**	Front Controls, Black Bezel ..... $3395 **EEA:** 1.6 GHz Atom 330 CPU, 512MB RAM, 320GB SATA HDD
#CRBF 21C-ECC21	Front Controls, Black Bezel ..... **$4395** **ECC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CRBF 21C-EBQ24**	Front Controls, Black Bezel ..... $4195 **EBQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
		#CRBF 21C-ECQ24	Front Controls, Black Bezel ..... **$4595** **ECQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD

CyRAQ 24G Series E Panel PC: 24" LCD Display, 1920 x 1200, 300 nits, Universal Panel or Rack Mounting

CyRAQ 24G Specifications: (Call or see website for flush panel-mount models)
*24.4"**W** x 17.5"**H** x 7.9"**D**, 7.6" Depth Behind Panel, Panel Cutout 23.5 x 16.6", 49.2 lb.*

#CRBF 24G-EBC21	Front Controls, Black Bezel ..... **$4095** **EBC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CRBF 24G-EEA16**	Front Controls, Black Bezel ..... $3495 **EEA:** 1.6 GHz Atom 330 CPU, 512MB RAM, 320GB SATA HDD
#CRBF 24G-ECC21	Front Controls, Black Bezel ..... **$4495** **ECC:** 2.1GHz Core 2 Duo CPU, 1GB RAM, 320GB SATA HDD	**#CRBF 24G-EBQ24**	Front Controls, Black Bezel ..... $4295 **EBQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD
		#CRBF 24G-ECQ24	Front Controls, Black Bezel ..... **$4695** **ECQ:** 2.4GHz Core 2 Quad CPU, 1GB RAM, 320GB SATA HDD

2 Upgrade options priced by monitor size:

	12"	15"	17"	19"	21"	24"
Touchscreen Option: to add an analog resistive touchscreen, add:	$400	$400	$500	$500	$500	$1000
***AR-Bonding* Option:** for antireflective bonding (see pg. 24) add:	$500	$600	$600	$700	$700	$1000

For total price with options, add amounts shown for "Touchscreen Option" and/or "*AR-Bonding* Option" to the price shown for the panel PC above.

Insert **–TRU** in the part number between the screen designator and CPU designator to order an optional USB-based **Analog Resistive Touchscreen.**
Insert **–U** in the part number between screen designator and CPU designator for optional *AR-Bonding* antireflective glass treatment *(original order only; see page 24).*
As an example, the **CRBF 21C-EBC21** with both analog resistive touchscreen and *AR-Bonding* would be **CRBF 21C-TRU-U-EBC21** and priced at $5195 ($3995 + $1200).

NOTES: ***Colors:*** Part numbers shown above are for black bezel models; for a brushed stainless steel bezel change **CPBF/CPBR** to **CPSF/CPSR**. Custom colors available; please call for cost and delivery. ***Rack-Mount:*** 15" & 17" models are easily ordered with a rack-mount front bezel; just replace **CPBF** with **CFBF** and add $100; all 19" & larger **CRxx** models are rack-mountable. ***Monitor control panel:*** All of the part numbers shown above represent monitors with OSD control buttons built into the display's front bezel; for **rear-access** controls, change **CPBF** to **CPBR**. All models are NEMA 4X when properly mounted in an appropriate enclosure.

Dual Drive/RAID upgrade: Upgrade to dual SATA drives in your Series E PPC! With this upgrade, our **EB** models support RAID 0 and 1 (**ECQ24**, **ECC21**, & **EEA16** models do not support RAID, but can have two hard drives using our RKA upgrades). **Original order only**; RKA option replaces the 3.5" SATA HDD. Order **RKA 20160A** upgrade (two 160GB drives) for an additional $**245**, **RKA 20320A** (two 320GB drives) for $**445**, or **RKA 20500A** (two 500GB drives) for $**545**. **Wireless LAN upgrade:** To add wireless networking to **EBQ24** & **EBC21** models, order the **MPCI WLANB** at $**100** (original order only). For custom mounting solutions, call our applications engineers.

Quantity Discounts: 1-4/List 5-9/5% 10-24/10% 25+/Call **Quantities of a Single Item Per Shipment – Call for Details**

FPC Series Panel PCs with 2 PCI Expansion Slots

2.4 GHz Pentium® 4 or 2.0 GHz Celeron® • 160GB HDD • Slim DVD Burner

Key Specifications (see our website for complete details)

FPC 1502 & FPC 1702 Series Panel PCs

Screen Size	*1502:* 15"; *1702:* 17" (diagonal)
Brightness	*1502:* 250 nits; *1702:* 260 nits (cd/m²)
Viewing Angle	*1502:* 160° (H), 150° (V); *1702:* 160° (H & V)
Contrast Ratio	*1502:* 500:1; *1702:* 800:1
Maximum Resolution	*1502:* 1024 x 768; *1702:* 1280 x 1024
Touchscreen Option	Analog resistive (connects via internal serial port)
CPU Options	2.4 GHz Pentium 4 *or* 2.0 GHz Celeron
Memory	1 GB included; 1 GB max. (1 slot)
Video	Built-in controller supports dual display
Drive Bays	Includes 2.5" 160GB HDD on antivibration mount, slim DVD burner, and slim 5.25" bay
Rear Panel I/O	Ethernet port (10/100 BaseT), 3 serial ports, VGA port, DIO port, PS/2 keybd & mouse ports, 3 audio jacks (line in, line out, and mic) S/PDIF port, parallel port, and 4 USB 2.0 ports
PCI Expansion Slots	Two (both accommodate cards up to 7.72" long)
Enclosure	Anodized black-color aluminum front bezel meets NEMA 4 standards when properly mounted; nickel-plated steel internal chassis
Dimensions	*1502:* 17.5"W x 13.2"H x 5.7"D (444 x 336 x 144 mm) *1702:* 19.0"W x 15.7"H x 6.4"D (483 x 399 x 164 mm)
Depth Behind Panel	5.5" (139 mm)
Panel Mount Cut-Out	*1502:* 15.9"W x 11.8"H (405 x 299 mm); *1702:* 17.7"W x 14.5"H (450 x 367 mm)
Weight	*1502:* 23.2lb. (10.5 kg); *1702:* 27.34 lb. (12.4 kg)
Cooling	3 fans (1 top, 1 power supply, 1 internal on CPU)
Power Supply	Built-in 250 W ATX, 90~264 VAC @ 47~63Hz
Power Consumption	5 A typical @ 110 VAC
Operating Temperature	+32° to +122°F (0° to +50°C)
Shock & Vibration	15g shock (11 ms max.), 1g vib. (5~500 Hz)
Operating System	Windows® XP included
Compliance	*1502:* CE, FCC 15 Cl. B; *1702:* CE, CISPR22Cl.B

Ordering Information:

Visit cyberresearch.com for detailed information.

#FPC 1702-P24 Panel PC with **17" LCD**, **2.4 GHz Pentium 4 CPU**, 1 GB RAM, 2.5" 160 GB HDD, slim DVD burner, anodized black front bezel **$3395**

#FPC 1702-L20 Panel PC with **17" LCD**, **2.0 GHz Celeron CPU**, 1 GB RAM, 2.5" 160 GB HDD, slim DVD burner, anodized black front bezel **$3295**

Optional Touchscreen: Add **"–TR"** to the part numbers shown above for a 17" analog resistive touchscreen ..... add **$500**

#FPC 1502-P24 Panel PC with **15" LCD**, **2.4 GHz Pentium 4 CPU**, 1 GB RAM, 2.5" 160 GB HDD, slim DVD burner, anodized black front bezel **$2695**

#FPC 1502-L20 Panel PC with **15" LCD**, **2.0 GHz Celeron CPU**, 1 GB RAM, 2.5" 160 GB HDD, slim DVD burner, anodized black front bezel **$2595**

Optional Touchscreen: Add **"–TR"** to the part numbers shown above for a 15" analog resistive touchscreen ..... add **$400**

Optional Upgrades

#MSI 25320A Upgrade to 320 GB 2.5" IDE Ultra ATA/100 Internal Hard Drive *(with original order only)* ..... add **$100**

FPC 1502 & FPC 1702 packages include: Panel PC with selected CPU, 1 GB RAM, 2.5" 160 GB HDD, slim DVD burner, and Windows XP.

Quantity Discounts: 1-4/List 5-9/5% 10-24/10% 25+/Call **Quantities of a Single Item Per Shipment – Call for Details**

www.cyberresearch.com
Visit our website for detailed product information!
Toll-Free Assistance: 1-800-341-2525 (USA) Tel: 203-643-5000 Fax: 203-643-5001
Applications Engineers: Monday – Friday, 9:00 AM – 5:00 PM, U.S. Eastern Time • e-mail: info@cyberresearch.com

STE 15G and STE 17G with 1 PCI Slot and Two 2.5" Bays

2.4 GHz Pentium® 4 or 2.0 GHz Celeron® • 160GB HDD • Slim DVD Burner

KEY SPECIFICATIONS (see our website for complete details)

STE 15G-TR & STE 17G-TR Series Panel PCs

Screen Size	*15G:* 15"; *17G:* 17" (diagonal)
Brightness	*15G:* 350 nits; *17G:* 300 nits (cd/m²)
Viewing Angle	*15G:* 120° (H), 100° (V); *17G:* 140° (H), 130° (V)
Contrast Ratio	*15G:* 400:1; *17G:* 500:1
Maximum Resolution	*15G:* 1024 x 768; *17G:* 1280 x 1024
Touchscreen	Analog resistive (uses one serial port)
CPU Options	2.4 GHz Pentium 4 *or* 2.0 GHz Celeron
Memory	1 GB included; 2 GB max. (2 slots)
Video	Built-in controller supports dual display
Drive Bays	Three 2.5" HDD bays (1 shock-mtd.; 160 GB HDD incl.); 1 slim DVD burner (included) & 1 slim 5.25" bay
Rear Panel I/O	2 Ethernet ports (10/100/1000BaseT), VGA port, 5 COM: ports, PS/2 keybd & mouse ports, parallel port, audio jacks; CompactFlash socket; *15G:* 4 USB 2.0 ports, *17G:* 6 USB 2.0 ports
PCI Expansion Slots	One (accommodates card up to 5.9" in length)
Enclosure	Gray-color aluminum front bezel meets NEMA 4 standards when properly mounted; steel internal chassis
Dimensions	*15G:* 16.0"W x 12.21H x 4.3"D (408 x 306 x 110 mm); *17G:* 17.8"W x 14.0"H x 4.4"D (452 x 356 x 111 mm)
Depth Behind Panel	3.9" (99 mm)
Panel Mount Cut-Out	*15G:* 15.2"W x 11.3"H (387 x 286 mm); *17G:* 16.7"W x 13.0"H (425 x 331 mm)
Weight	*15G:* 19.6 lbs. (8.9 kg); *17G:* 25.24 lbs. (11.4 kg)
Cooling	4 cooling fans (2 left panel, 1 power supply, 1 CPU)
Power Supply	Built-in ATX with autoranging and PFC
Power Consumption	4 A @ 115 VAC, 90~264 VAC @ 47~63Hz
Operating Temperature	+32° to +122°F (0° to +50°C)
Relative Humidity	5~95%, noncondensing
Operating System	Windows® XP included
Compliance	Meets TÜV standards; CE & UL approved

Ordering Information:

Visit cyberresearch.com for detailed information.

#STE 17G-P24-TR Panel PC with **17" Touchscreen LCD**, **2.4 GHz Pentium 4 CPU**, 1 GB RAM, 2.5" 160 GB HDD, DVD-RW burner **$2695**

#STE 17G-L20-TR Panel PC with **17" Touchscreen LCD**, **2.0 GHz Celeron CPU**, 1 GB RAM, 2.5" 160 GB HDD, DVD-RW burner **$2595**

#STE 15G-P24-TR Panel PC with **15" Touchscreen LCD**, **2.4 GHz Pentium 4 CPU**, 1 GB RAM, 2.5" 160 GB HDD, slim DVD-RW burner **$2595**

#STE 15G-L20-TR Panel PC with **15" Touchscreen LCD**, **2.0 GHz Celeron CPU**, 1 GB RAM, 2.5" 160 GB HDD, slim DVD-RW burner..... **$2495**

Rack-Mounting Kits for STE 17G and STE 15G Series Panel PCs

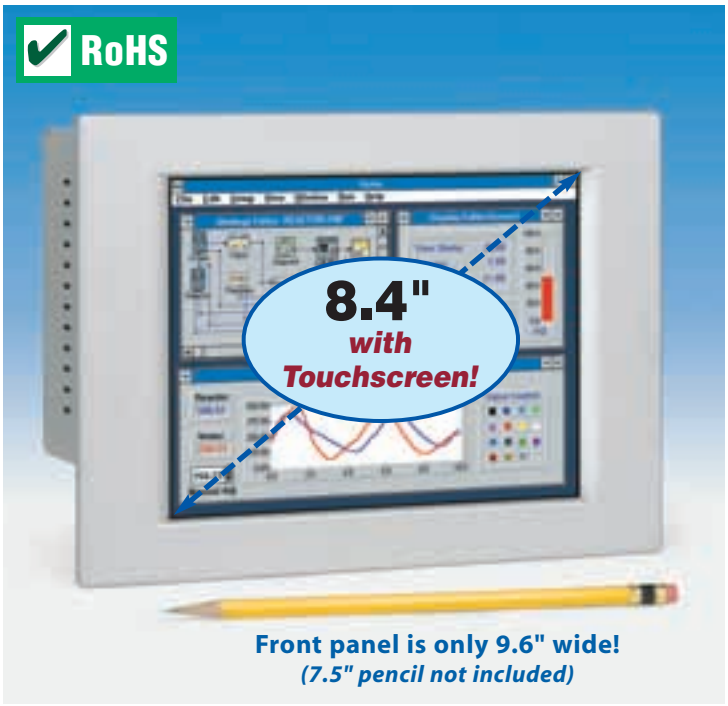
#STE 17RK Rack-Mount Kit for STE 17G Series Panel PCs, measures 15.58" (**9U**) high x 19" wide; 0.09" protrusion from rack **$75**

#STE 15RK Rack-Mount Kit for STE 15G Series Panel PCs, measures 13.88" (**8U**) high x 19" wide; 0.08" protrusion from rack **$60**

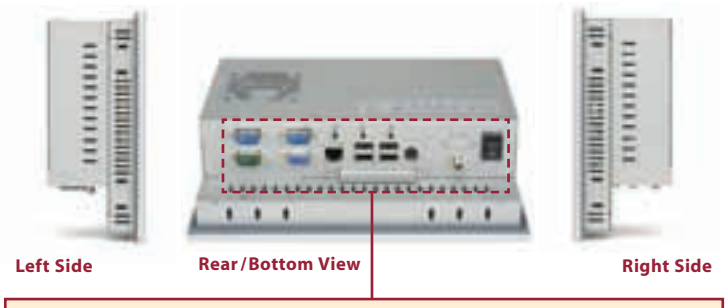
STE 15G-xxx-TR & STE 17G-xxx-TR packages include: Panel PC with touchscreen LCD, selected CPU, 1 GB RAM, 2.5" 160 GB HDD, slim DVD-RW burner, & Windows XP. For CompactFlash memory cards, see page 126. For alternative hard drives, see page 127. For additional RAM and alternative operating systems, see page 100. For complete STE series Panel PC specifications and additional options, please visit our website.

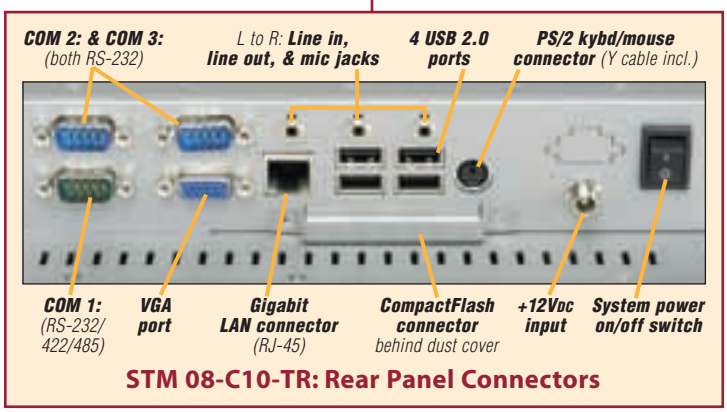
Ultra-Compact Panel PC with 8.4" 450-nit Touchscreen LCD!

1 GHz Celeron® M CPU • 160 GB SATA HDD • Slim DVD Burner • Gigabit LAN



Front panel is only 9.6" wide!
(7.5" pencil not included)




COM 2: & COM 3: (both RS-232)
L to R: Line in, line out, & mic jacks
4 USB 2.0 ports
PS/2 kybd/mouse connector (Y cable incl.)
COM 1: (RS-232/ 422/485)
VGA port
Gigabit LAN connector (RJ-45)
CompactFlash connector behind dust cover
+12VDC input
System power on/off switch

STM 08-C10-TR: Rear Panel Connectors

Tight on space? Our NEMA 4 **STM 08G** panel PC is only 9.55" wide, 7.0" high, 3.0" deep, and weighs just 5.29 pounds! Its Celeron® M 1GHz CPU has plenty of power for most industrial uses, yet was designed for low heat generation. Software can be conveniently loaded via the Ethernet port or a CompactFlash card. One 40mm axial fan provides required cooling. And while the STM 08G was designed for panel-mounting in restricted spaces, it comes with hardware for wall mounting & 100 mm VESA holes for swivel-arm mounting.

KEY SPECIFICATIONS (see web for full details)	STM 08G-C10-TR
Screen Size	8.4" (diagonal)
Brightness	450 nits (cd/m²)
Viewing Angle	120° (horizontal), 100° (vertical)
Contrast Ratio	500:1
Maximum Resolution	800 x 600
Touchscreen	Analog resistive (connects via RS-232 port)
CPU	1 GHz Celeron M (800 MHz FSB)
Memory	512 MB DDR SODIMM
Maximum Memory	1 GB max. via one 200-pin DDR SODIMM slot
Video	Built into Intel® 852GM chipset, shares up to 32MB system memory
Operating System	Windows® XP included
Drives Included	2.5" 160 GB SATA HDD
Enclosure	Gray-colored aluminum front bezel meets NEMA 4 standards when properly mounted; steel rear chassis
Dimensions	9.6"W x 7.0"H x 3.0"D (243 x 178 x 76 mm)
Depth Behind Panel	2.8" (72 mm)
Panel Mount Cut-Out	9.1"W x 6.6"H (230 x 167 mm)
Weight	5.29 lbs. (including power supply & power cord)
Cooling	One 40 mm fan at rear
Power Supply	External power supply (includes 6-ft. power cord)
Power Consumption	100~240VAC @ 47~63Hz; nominal output 12V @ 4.58A
Operating Temperature	+32° to +122°F (0° to +50°C)
Relative Humidity	5~95%, noncondensing
Compliance	Meets CE & TÜV standards; UL approved; RoHS

Ordering Information:

Visit cyberresearch.com for detailed information.

#STM 08G-C10-TR Panel PC with **8.4" Touchscreen LCD**, **1 GHz Celeron M CPU**, 512 MB RAM, 2.5" 160 GB SATA HDD, Windows XP.....**$1995**

#MSA 25320B Upgrade Hard Drive to 2.5" 320 GB SATA Hard Drive *(with original order only)*.....add **$100**

Package includes: Panel PC with 1 GHz Celeron M CPU, 512 MB RAM, 2.5" 160 GB SATA HDD, Windows XP, external power supply, panel and wall-mounting hardware.

QUANTITY DISCOUNTS: 1-4/LIST 5-9/5% 10-24/10% 25+/CALL Quantities of a Single Item Per Shipment – Call for Details

See pg. 11 for details about our NEW 8.4" Panel PC Security Terminal with built-in Camera & RFID Reader!

www.cyberresearch.com
Visit our website for detailed product information!
Toll-Free Assistance: 1-800-341-2525 (USA) Tel: 203-643-5000 Fax: 203-643-5001
Applications Engineers: Monday – Friday, 9:00 AM – 5:00 PM, U.S. Eastern Time • e-mail: info@cyberresearch.com